

CONCRETE DESIGN CALCULATOR: Quiz-4 Solution Section (3)

Select Strength:
 $f_y = 60000 \text{ psi}$
 $f'_c = 4000 \text{ psi}$

Select design p :
 p_{max}

Select Load Case:
 $1.2D + 1.6L$

$f_y = 60000$
 $p_{max} = 0.0033$
 $R_n \text{ at } d_{max} [\text{psi}] = 192.2$

$f'_c = 4000$
 $p_{max} = 0.0181$
 $R_n \text{ at } d_{max} [\text{psi}] = 912.0$

Design $p = 0.0069$
Design $R_n = 388.79$
 $bd^2 = 7813.549$
 $d = 22.10$

Est $w_s [\text{lb/ft}] = 1.78$
 $M_u [\text{ft-k}] = 227.8$
 $M_u [\text{ft-k}] = 253.2$
Density [pcf] 150

Enter Givens & Estimates:

$w_s [\text{lb/ft}]$ 0.55

$w_s [\text{lb/ft}]$ 0.4

Length [ft] 32

Clear Cover [in] 3

Est Self Wt [pcf] 400

Actual Self Wt [pcf] 400.00

$b_w [\text{in}]$ 16

$h [\text{in}]$ 27

$d [\text{in}]$ 24

$A_s [\text{in}^2]$ 2.65

$A_{s,max} [\text{in}^2]$ 1.214

$A_{s,max} [\text{in}^2]$ 1.280

$\phi M_u [\text{ft-k}]$ 253.36

$b_{eff} [\text{in}]$ 80

$t [\text{in}]$ 3

$a [\text{in}]$ 0.49

β_1 0.85

$e [\text{in}]$ 0.57

e_t 0.1227

Neutral Axis Calculations:

T [kips] 142.3

$A_g [\text{in}^2]$ 41.8

$A_{s,req} [\text{in}^2]$ 240

$z [\text{in}] = 21.60$

$z [\text{in}] = 22.50$

Governing z 22.50

Select A_s in Tension:

BAR

Qty

$A_s [\text{in}^2]$

#8

3

2.37

If $a < H$

$A_s [\text{in}^2]$ 2.6406

If $a > t$

$A_g [\text{in}^2]$ 30.88

$M_{u,max} [\text{ft-k}]$ 1224.00

$M_{u,r} [\text{ft-k}]$ 996.16

$R_{n,r}$ 1441.20

$\rho_n = 0.63$

$a [\text{in}]$ 14.64

$e [\text{in}]$ 17.22

e_t 0.00

$A_{s,max} [\text{in}^2]$ 13.27

$A_s [\text{in}^2]$ 24.15

Bar Selection:

BAR

Number of Bars in a Single Layer of Reinforcing

2

3

4

5

6

7

8

Area

Width

Area

Width

Area

Width

Area

Width

Area

Width

Area

Width

Area

Width

#3

0.39

6.80

0.58

8.50

0.78

9.80

0.98

11.30

1.18

12.80

1.37

14.30

1.57

15.80

#4

0.61

6.90

0.91

8.50

1.23

10.10

1.55

11.80

1.84

13.4

2.15

15.00

2.45

16.70

#5

0.88

7.00

1.32

8.80

1.77

10.50

2.21

12.30

2.65

14.00

3.09

15.80

3.53

17.50

#6

1.20

7.20

1.80

9.00

2.41

10.90

3.01

12.80

3.61

14.70

4.21

16.50

4.81

18.40

#7

1.57

7.30

2.35

9.30

3.14

11.30

3.93

13.30

4.71

15.30

5.50

17.30

6.28

19.30

#8

2.00

7.60

3.00

9.80

4.00

12.10

5.00

14.30

6.00

16.60

7.00

18.80

8.00

21.10

#9

2.55

7.80

3.79

10.40

5.06

12.90

6.33

15.50

7.59

18.00

8.86

20.50

10.12

23.10

#10

3.12

8.10

4.68

10.80

6.25

13.80

7.81

16.80

9.37

19.80

10.94

22.20

12.50

25.00

#11

4.50

8.90

6.75

12.50

9.00

15.70

11.25

19.00

13.50

22.40

15.75

25.80

18.00

29.20

#12

6.00

10.60

12.00

15.10

16.00

19.60

20.00

24.10

24.00

28.80

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33.50

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Roman Wölfel



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digital levels simultaneously all day continuing after hours on a company supplied home computer and network connection In Technology Choices Diane Bailey and Paul Leonardi argue that occupational factors rather than personal preference or purely technological concerns strongly shape workers technology choices Drawing on extensive field work a decade s worth of observations and interviews in seven engineering firms in eight countries Bailey and Leonardi challenge the traditional views of technology choices technological determinism and social constructivism Their innovative occupational perspective allows them to explore how external forces shape ideas beliefs and norms in ways that steer individuals to particular technology choices albeit in somewhat predictable and generalizable ways They examine three relationships at the heart of technology choices human to technology technology to technology and human to human An occupational perspective they argue helps us not only to understand past technology choices but also to predict future ones **Automation Solutions for**

Analytical Measurements Heidi Fleischer, Kerstin Thurow, 2017-08-30 The first book dedicated specifically to automated sample preparation and analytical measurements this timely and systematic overview not only covers biological applications but also environmental measuring technology drug discovery and quality assurance Following a critical review of realized automation solutions in biological sciences the book goes on to discuss special requirements for comparable systems for analytical applications taking different concepts into consideration and with examples chosen to illustrate the scope and limitations of each technique The Structural Engineer ,2001 *Risk-Based Strategies for Bridge Maintenance* Khaled M Mahmoud, 2023-08-16 Effective maintenance of bridge structures comprises a broad spectrum of plans for repairs and services implemented to enable bridges to perform their intended function These include in depth inspection fatigue analysis design of mitigation measures and construction to avert component deterioration Several incidents of in service and under construction bridge failures have recently taken place These dramatic failures emphasize the importance of risk based inspections and analysis of real life data to evaluate reliability of bridges To effectuate benefits of reliability analysis in bridge maintenance work on theoretical reliability must be equipped with practical analytical tools Such an approach must underscore risk elements and identify processes to manage risk and avoid unexpected outcomes of failures and service disruption of bridges The devastating earthquakes of February 6 2023 in the southern region of Turkey near the northern border of Syria which claimed tens of thousands of lives caused enormous structural damage and staggering economic losses These seismic events brought to focus on the vitality of instilling infrastructure routes that must accommodate emergency management plans to integrate the influx of medical and rescue response teams The safe operation of bridges along these routes is indispensable for mobilization and deployment of rescue teams medical personnel humanitarian assistance and the supply of food and water The reliability of access routes and bridges is defined by their ability to adequately function as planned to effectuate emergency management plans in the event of a similar seismic event anywhere in the world Risk Based Strategies for Bridge Maintenance contains selected papers presented at the 11th New York City Bridge Conference New

York City USA 21 22 August 2023 and discusses issues of reliability risk assessment management maintenance inspection monitoring design preservation and rehabilitation of bridges The book is aimed at bridge engineers **BIM Handbook** Charles M. Eastman,2008-03-03 This book is about a new approach to design construction and facility management called building information modeling It provides an in dept understanding of BIM technologies the business and organizational issues associated with its implementation and the profound impacts that effective use of BIM can provide to all members of a project team **A Procedure for Structural Weight Estimation of Single Stage to Orbit Launch Vehicles (Interim User's Manual)** ,2002 **Optimization and Control in Civil and Structural Engineering** B. Kumar,B. H. V. Topping,1999 Contains a selection of papers presented at The Seventh International Conference on Civil and Structural Engineering and The Fifth International Conference on the Applications of Artificial Intelligence to Civil and Structural Engineering held concurrently from 13 15 September 1999 at Oxford England **Automotive Engineering International** ,2001-07 Engineering Record, Building Record and Sanitary Engineer Charles Frederick Wingate, Henry C. Meyer,1914 *Builder's Guide to Accounting* Michael C. Thomsett,2001-07 This book includes self test section at the end of each chapter Test yourself then check answers in the back of the book to see how you score CD ROM included **The Software Encyclopedia 2000** Bowker Editorial Staff,2000-05 *Humanizing Digital Reality* Klaas De Rycke, Christoph Gengnagel, Olivier Baverel, Jane Burry, Caitlin Mueller, Minh Man Nguyen, Philippe Rahm, Mette Ramsgaard Thomsen,2017-09-15 This book aims at finding some answers to the questions What is the influence of humans in controlling CAD and how much is human in control of its surroundings How far does our reach as humans really go Do the complex algorithms that we use for city planning nowadays live up to their expectations and do they offer enough quality How much data do we have and can we control Are today s inventions reversing the humanly controlled algorithms into a space where humans are controlled by the algorithms Are processing power robots for the digital environment and construction in particular not only there to rediscover what we already knew and know or do they really bring us further into the fields of constructing and architecture The chapter authors were invited speakers at the 6th Symposium Design Modelling Symposium Humanizing Digital Reality which took place in Ensa Versailles France from 16 20 September 2017 ASCE Manuals and Reports on Engineering Practice ,1962 **Modern Steel Construction** ,2004 **Engineering Record** ,1914 Thomas Register of American Manufacturers and Thomas Register Catalog File ,2002 Vols for 1970 71 includes manufacturers catalogs **Aerospace Engineering** ,2004 **Cost Engineering** ,1999

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Table of Contents Excel Spreadsheets For Structural Engineers Solution Manual

1. Understanding the eBook Excel Spreadsheets For Structural Engineers Solution Manual
 - The Rise of Digital Reading Excel Spreadsheets For Structural Engineers Solution Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Excel Spreadsheets For Structural Engineers Solution Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Excel Spreadsheets For Structural Engineers Solution Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Excel Spreadsheets For Structural Engineers Solution Manual
 - Personalized Recommendations
 - Excel Spreadsheets For Structural Engineers Solution Manual User Reviews and Ratings
 - Excel Spreadsheets For Structural Engineers Solution Manual and Bestseller Lists
5. Accessing Excel Spreadsheets For Structural Engineers Solution Manual Free and Paid eBooks
 - Excel Spreadsheets For Structural Engineers Solution Manual Public Domain eBooks
 - Excel Spreadsheets For Structural Engineers Solution Manual eBook Subscription Services

- Excel Spreadsheets For Structural Engineers Solution Manual Budget-Friendly Options
- 6. Navigating Excel Spreadsheets For Structural Engineers Solution Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Excel Spreadsheets For Structural Engineers Solution Manual Compatibility with Devices
 - Excel Spreadsheets For Structural Engineers Solution Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Excel Spreadsheets For Structural Engineers Solution Manual
 - Highlighting and Note-Taking Excel Spreadsheets For Structural Engineers Solution Manual
 - Interactive Elements Excel Spreadsheets For Structural Engineers Solution Manual
- 8. Staying Engaged with Excel Spreadsheets For Structural Engineers Solution Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Excel Spreadsheets For Structural Engineers Solution Manual
- 9. Balancing eBooks and Physical Books Excel Spreadsheets For Structural Engineers Solution Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Excel Spreadsheets For Structural Engineers Solution Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Excel Spreadsheets For Structural Engineers Solution Manual
 - Setting Reading Goals Excel Spreadsheets For Structural Engineers Solution Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Excel Spreadsheets For Structural Engineers Solution Manual
 - Fact-Checking eBook Content of Excel Spreadsheets For Structural Engineers Solution Manual
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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